

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 February 2005 (10.02.2005)

PCT

(10) International Publication Number
WO 2005/011679 A1

(51) International Patent Classification⁷: **A61K 31/4152**,
C07D 231/32, A61P 29/00, 31/00, 37/00

(74) Agent: **FRANK, B. DEHN & CO.**; 179 Queen Victoria
Street, London EC4V 4EL (GB).

(21) International Application Number:
PCT/GB2004/003210

(22) International Filing Date: 23 July 2004 (23.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0317269.9 23 July 2003 (23.07.2003) GB

(71) Applicant (for all designated States except US): **A-VIRAL**
ASA [NO/NO]; Strandveien 50, N-1366 Lysaker (NO).

(71) Applicant (for GB only): **COCKBAIN, Julian** [GB/GB];
42 Southmoor Road, Oxford OX2 6RD (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **DEKKERS, David**,
Walterus, Cornelis [NL/NL]; Pastoor Verhoevenstraat 6,
5504 BK Veldhoven (NL). **AARDEN, Lucien, Adrianus**
[NL/NL]; Noordmeerweg 10, 1151 CV Broek in Waterland
(NL). **TEN BRINK, Janna, Alberdina** [NL/NL]; Kerk-
weg 122, 3513 VE Utrecht (NL).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

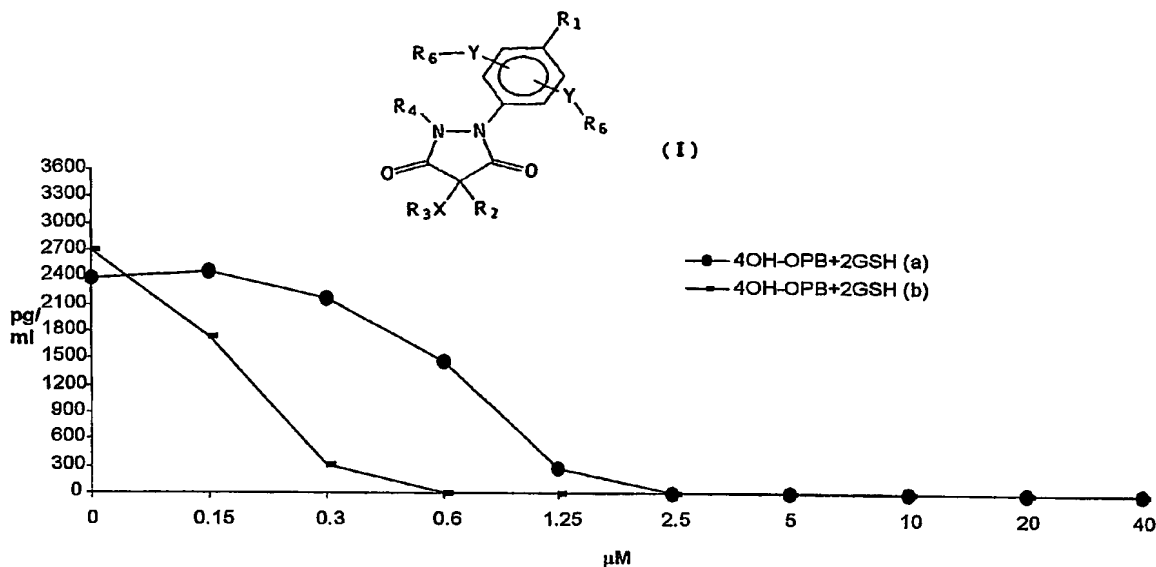
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: THIO-SUBSTITUTED PHENBUTAZONE COMPOUNDS AS ANTI-INFLAMMATORY, ANTI-VIRAL AND IM-
MUNOMODULATORY AGENTS



(57) Abstract: The present invention relates to optionally substituted compounds of the formula (I) or a salts thereof. The invention also provides compositions comprising such compounds and use thereof as anti-inflammatory, antiviral and immunomodulatory agents.